



DAYA

臺源國際股份有限公司

TO-92 Plastic-Encapsulate Transistors

79L05

CJ79L05 Three-terminal negative voltage regulator

FEATURES

Maximum Output current

I_{OM}: 0.1 A

Output voltage

V_O: -5 V

TO-92

1. GND

2. IN

3. OUT



ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

| Parameter | Symbol | Value | Units |
|--------------------------------------|------------------|----------|-------|
| Input Voltage | V _I | -30 | V |
| Operating Junction Temperature Range | T _{OPA} | 0~+125 | °C |
| Storage Temperature Range | T _{STO} | -55~+150 | °C |

ELECTRICAL CHARACTERISTICS (V_F=-10V, I_O=40mA, 0°C < T_J < 125°C, C₁=0.33μF, C₀=0.1μF, unless otherwise specified)

| Parameter | Symbol | Test conditions | MIN | TYP | MAX | UNIT |
|--------------------------|-----------------|--|-------|------|-------|-------------|
| Output voltage | V _O | T _J =25°C | -4.8 | -5.0 | -5.2 | V |
| | | -7V ≤ V _I ≤ -20V, I _O =1mA~40mA | -4.75 | -5.0 | -5.25 | V |
| | | -7V ≤ V _I ≤ V _{MAX} , I _O =1mA~70mA | -4.75 | -5.0 | -5.25 | V (note) |
| Load Regulation | ΔV _O | T _J =25°C, I _O =1mA~100mA | 11 | 60 | 60 | mV |
| | | T _J =25°C, I _O =1mA~40mA | 5.0 | 30 | 30 | mV |
| Line regulation | ΔV _O | -7V ≤ V _I ≤ -20V, T _J =25°C | 32 | 150 | 150 | mV |
| | | -8V ≤ V _I ≤ -20V, T _J =25°C | 26 | 100 | 100 | mV |
| Quiescent Current | I _Q | 25°C | | 3.8 | 6 | mA |
| Quiescent Current Change | ΔI _Q | -8V ≤ V _I ≤ -20V | | | 1.5 | mA |
| | ΔI _Q | 1mA ≤ V _I ≤ 40mA | | | 0.1 | mA |
| Output Noise Voltage | V _N | 10Hz ≤ f ≤ 100KHz | | 42 | | uV |
| Ripple Rejection | RR | -8V ≤ V _I ≤ -18V, f=120Hz, T _J =25°C | 41 | 49 | | dB |
| Dropout Voltage | V _D | T _J =25°C | | 1.7 | | V |

TYPICAL APPLICATION

